DFM 957-1

Material Safety Data Sheet
Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1915)

U.S. Department of Labor
Occupational Safety and Health Administration

S-28 (C)

OMB No. 1218-0074
Expiration Date 05/31/86

Section I

Manufacturer's Name: E-C APPARATUS CORPORATION

Emergency Telephone Number: (813)344-1644

Address (Number, Street, City, State, and ZIP Code): 3831 Tyrone Boulevard North

St. Petersburg, FL 33709

Chemical Name and Synonyms: 10 N Sodium Hydroxide, Mg-3

Trade Name and Synonyms: Caustic Soda, Caustic, Sodium Hydrate

Chemical Family: Inorganic base

Formula: NaOH

Section II–Hazardous Ingredients

Paints, Preservatives, and Solvents	%	TLV (Units)	Alloys and Metallic Coatings	%	TLV (Units)
Pigments			Base Metal		
Catalyst			Alloys		
Vehicle			Metallic Coatings		
Solvents			Filler Metal Plus Coating or Core Flux		
Additives			Others		
Others: Sodium Hydroxide	40%	2mg/m^3			

Hazardous Mixtures of Other Liquids, Solids or Gases

	%	TLV (Units)

Section III–Physical Data

Boiling Point (°F)	290	Specific Gravity (H_2O=1)	1.44
Vapor Pressure (mm Hg.) at 150°F	19	Percent Volatile by Volume (%)	0%
Vapor Density (AIR=1)		Evaporation Rate (_____ =1)	

Solubility in Water: Complete

Appearance and Odor: Colorless to gray syrupy liquid. Mild slightly pungent odor

Section IV–Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	Lel	Uel
None. Non-combustible			

Extinguishing Media

Special Fire Fighting Procedures: Flood with water using care not to splatter or splash this material.

Unusual Fire and Explosion Hazards: Although non-combustible, contact with moisture or water may generate sufficient heat to ignite adjacent combustible materials. Contact with certain chemicals and metals generate, flammable hydrogen gas. Use positive pressure, self-contained breathing apparatus. HIGHLY CORROSIVE.

Page 1 (Continued on Reverse Side)

Form No. 30-500 Printed and Sold by Unz & Co., 190 Baldwin Ave., Jersey City, N.J 07306—N.J (201) 795-5400/Toll Free (800) 631-3098

Section V–Health Hazard Data

Threshold Limit Value
Ceiling limit 2mg/m^3

Effects of Overexposure Extremely corrosive to all body tissue. Contact will cause severe burns and frequently deep ulceration. Eye contact will produce severe and painful injury. Inhalation of mist will cause irritation and may even cause damage to entire respiratory tract.

Emergency First Aid Procedures EYE CONTACT: Flush with excess water including under eyelids. SPEED IN FLUSHING IS IMPORTANT. SKIN CONTACT: Remove contaminated clothing under shower, flush with excess of water. Call physician. INGESTION: DO NOT INDUCE VOMITING. DRINK WATER OR MILK then neutralize with vinegar, call physician. INHALATION: Remove from exposure, call physician

Section VI–Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid) Reacts with water generating heat. Can react violently with chlorinated hydrocarbons. Generates hydrogen in contact with certain metals.

Hazardous Decomposition Products
Hydrogen which may be combustible

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VII–Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled
Wash area with excess water. Later neutralize with vinegar.

Waste Disposal Method
Small quantities; dilute with excessive water, flush to sewer.

Large quantities; in licensed hazardous waste disposal facilities.

Section VIII–Special Protection Information

Respiratory Protection (Specify Type)
N.I.O.S.H. approved self-contained, positive pressure breathing apparatus

Ventilation	Local Exhaust	Special
	Mechanical (General) X	Other

Protective Gloves: Rubber	Eye Protection: Splash-proof goggles

Other Protective Equipment
Overall body protection, coveralls, face shield

Section IX–Special Precautions

Precautions to be Taken in Handling and Storing
Keep container closed. Replace dropper cap with shipping cap when kit is not in use.

Store in cool, dry area away from acids, metals, explosives, and combustible materials.

Other Precautions
STRONG CORROSIVE MATERIAL